MARINE CORPS SYSTEMS COMMAND (MARCORSYSCOM)

Family of Field Medical Equipment (FFME) Programs

Vanguard 2009

PM Office: PM CBRN (FFME)

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Mission

To develop and field medical systems for Emergency and Forward Resuscitative Care in response to the warfighters needs to support forward deployed expeditionary maneuver warfare concepts; while continually looking for new and better ways to deliver and support the world class medical products and capabilities.

February 2009

Background

- To provide health services that maintain combat effectiveness
- To safely stabilize and evacuate casualties from the battlefield
- To provide preventive and critical medical and dental care
- Authorized Medical Allowance Lists (AMAL) and Authorized Dental Allowance Lists (ADAL) provide medical personnel with the equipment, consumables, and medicine required to treat patients in a field or combat environment
- AMAL and ADAL include a variety of specialized medical capabilities

Research and Development

- To provide data for evidence based acquisition decisions for the improvement of current capabilities, implementation of new capabilities, or insertion of technological advances.
- TRL 6.3 to 6.4
- Modification of COTS
- Must be tied to a capability or capability gap.
- Must be tied to a requirement.
- Must be tied to the POM.

Collaborations and Funding

- MCSC – FFME
  - Research and Development
- Marine Enhancement Program (MEP)
- Future Naval Capabilities (FNC)
- Foreign Comparative Testing (FCT)
- Defense Acquisition Challenge (DAC)

Sources of Information

- Defense Advanced Research Projects Agency (DARPA)
- Committee on Tactical Combat Casualty Care (CoTCCC)
- Defense Medical Standardization Board (DMSB)
- Conferences (i.e. Special Operations Medical Association (SOMA))
- AMAL Reviews
- Marine Corps Lesson Learned
- Marine Corps Warfighting Lab (MCWL)
- Integrated Product Teams (IPT's)

Testing Agencies

- Air Force Medical Evaluation Support Activity (AFMESA)
  - Operational Assessment (OA)
  - Limited reliability, availability, and maintainability (RAM) test
- U.S. Army Aeromedical Research Laboratory (USAARL)
  - Evaluate performance of products under adverse environmental conditions

Current Initiatives

- Monitoring, Oxygen, Ventilation, and External Suction (MOVES) Device
  - En Route Care System (ERCS)
  - Weight reduced by 85%
    - 450 lbs to 65 lbs
  - Cubic feet reduced by 82%
    - 29 cu ft to 5 cu ft
  - Elimination of oxygen cylinders
  - Decision Point: Spring 2009
  - Fielding: Summer/Fall 2009

Current Initiatives

- Infrascanner – Intracranial Hemorrhage diagnosis
  - Joint effort with Office of Naval Research (ONR)
- ASI Dental Unit
  - Joint effort with Naval Institute of Dental and Biological Research (NIDBR), Great Lake, IL
  - Field User Evaluation (FUE) completed: Nov 2008
  - Environmental testing: Feb 2009
  - Decision Point: Apr 2009
- Vaccine and Reagent Refrigeration System (VARRS)
  - Eliminate dorm type refrigerators
  - Ruggedized units for military operation
  - Prolonged independent power operation
  - Mobility

Back-up Slides

- MOVES Anesthesia Delivery Module (MADM)
- Belmont Buddy Lite
  - Possible testing for implementation into the CASEVAC system
- Patient Active Warming System
  - Testing item to be used in conjunction with the Absorbent Patient Litter System (APLS) Thermal Guard
  - Three separate units being tested
- Abdominal Wound VAC
  - OR specialists wanted an Abdominal wound dressing
  - Spoke with industry and having new Abdominal Wound Dressing kit created with help from OR specialist on both coasts
- Plasma Sterilizer
  - Sterilucent working towards plasma sterilizer
  - Likely replacement of Big Bertha
  - U.S. Army working with program as well